AMENDMENTS TO THE CLAIMS

The following is a complete listing of claims with status identifiers in parenthesis.

Listing of the Claims:

- 1. (Currently Amended) A miniature actuator comprising
- a first flux generator for generating a controllable first magnetic flux,
- a second flux generator for generating a controllable second magnetic flux,
- a movable diaphragm for producing an acoustic output, and
- means for generating a permanent magnetic flux,

wherein the movable diaphragm is positioned between the first and second flux generator, the movable diaphragm having a <u>soft</u> magnetic <u>permeable</u>-material which forms part of a magnetic flux path of the actuator and thereby being movable in response to the generated first and second magnetic fluxes.

- 2. (Original) A miniature actuator according to claim 1, wherein the first flux generator comprises a conductive path formed as a first coil having a first centre, said conductive path being adapted to guide a first alternating current.
- 3. (Original) A miniature actuator according to claim 2, wherein the second flux generator comprises a conductive path formed as a second coil having a second centre, said conductive path being adapted to guide a second alternating current.

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4. (Original) A miniature actuator according to claim 3, wherein the first and second coils

are embedded into a polymer material.

5. (Original) A miniature actuator according to claim 3, wherein the first and second

coils are connected in series or in parallel producing a magnetic flux in opposite direction.

6. (Original) A miniature actuator according to claim 3, wherein the means for generating

the permanent magnetic flux through the movable diaphragm comprises permanent magnets

positioned on both sides of the movable diaphragm.

7. (Original) A miniature actuator according to claim 3, wherein the means for

generating the permanent magnetic flux through the movable diaphragm is positioned

symmetrically around a centre axis defined by the first and second centres.

8. (Original) A miniature actuator according to claim 6, wherein the permanent magnets

are formed as ring magnets, said ring magnets forming part of a housing of the actuator.

9. (Original) A miniature actuator according to claim 6, wherein the permanent magnets

are formed as bar magnets, said bar magnets being positioned at the centre axis defined by the

first and second centres.

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- 10. (Original) A miniature actuator according to claim 6, wherein the permanent magnets comprise electroless- or electrochemical deposited material selected from the group consisting of Fe, Cr, Co, Ni, Pt, V, Mn, Bi or any combination thereof.
- 11. (Original) A miniature actuator according to claim 1, wherein the movable diaphragm comprises a material for adjusting the magnetic properties of the movable diaphragm, said material being selected from the group consisting of Ni, Fe, Co, Cu, Cr, Mo or any combination thereof.
- 12. (Original) A miniature actuator according to claim 3, wherein the conductive paths of the first and second coils comprise electroplated Cu, Au or Ag or any combination thereof.
- 13. (Previously Presented) A miniature actuator according to claim 6, wherein an opening, so as to form a sound outlet, is comprised in either of the permanent magnets positioned on both sides of the movable diaphragm.
- 14. (Original) A miniature actuator according to claim 13, wherein the sound inlet opening has a substantially circular shape, and is positioned symmetrically around the centre axis defined by the first and second centres.
 - 15. (Original) A mobile unit comprising a miniature actuator according to claim 1.

- 16. (Original) A mobile unit according to claim 15, wherein the mobile unit is a hearing instrument.
- 17. (Original) A mobile unit according to claim 15, wherein the mobile unit is a mobile or cellular phone.

18-22. (Canceled)

- 23. (Previously Presented) A miniature actuator according to claim 1, wherein the movable diaphragm comprises, in a plane of the diaphragm,
 - a substantially stiff centre part,
 - a resilient outer part surrounding the substantially stiff centre part,

wherein the movable diaphragm shows predetermined magnetic properties, said predetermined magnetic properties varying across the substantially stiff centre part and the resilient outer part so as to avoid saturation effects of the movable diaphragm when the movable diaphragm is positioned in a magnetic flux that varies in the plane of the diaphragm.

- 24. (Previously Presented) A miniature actuator according to claim 23, wherein the magnetic properties of the movable diaphragm varies according to a varying thickness of the diaphragm.
- 25. (Previously Presented) A miniature actuator according to claim 23, wherein the magnetic properties of the movable diaphragm varies according an added material, wherein the

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added material is selected from the group consisting of Ni, Fe, Co, Cu, Cr, Mo or any combination thereof.

26. (Canceled)

27. (Previously Presented) A miniature actuator according to claim 23, further comprising a plurality of canals adapted to guide air from the centre part of the movable diaphragm to the outer part of the movable diaphragm so as to reduce/minimise squeeze film damping effects.